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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/083,372	02/27/2002	Tatsuoki Kohno	219995US0TTCRD	4786
22850	7590 09/22/2006		EXAMINER	
• • • • • • • • • • • • • • • • • • • •	MCCLELLAND	WEINER, LAURA S		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			1745	
			DATE MAILED: 09/22/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		_			
*	10/083,372	KOHNO ET AL.					
Office Action Summary	Examiner	Art Unit		_			
	Laura S. Weiner	1745					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).					
Status	,						
1) Responsive to communication(s) filed on 11 A	<u>ugust 2006</u> .						
2a)⊠ This action is FINAL. 2b)☐ This	This action is FINAL. 2b) This action is non-final.						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) <u>1-4,6,8,10 and 12-22</u> is/are pending in	n the application.						
4a) Of the above claim(s) 16-22 is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>10 and 12-15</u> is/are allowed.							
6) Claim(s) <u>1-4,6 and 8</u> is/are rejected.	6)⊠ Claim(s) <u>1-4,6 and 8</u> is/are rejected.						
7) Claim(s) is/are objected to.		٠					
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ acce	epted or b) \square objected to by the I	Examiner.					
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents	s have been received in Applicati	on No					
3. Copies of the certified copies of the prior	-	ed in this National	Stage				
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachment(s)							
) Notice of References Cited (PTO-892)	4) ∐ Interview Summary Paper No(s)/Mail Da						
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) 🔲 Notice of Informal P						
- uper racial/ration bate	6) Other:						

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 8-11-06 have been fully considered but they are not persuasive. Applicant argues that a gel electrolyte, a gel is a distinct solid-state physical form which has not viscosity, but is itself a self-supporting structure having compression strength while a liquid has viscosity but has not mechanical strength. The examiner disagrees because has stated below Clarke et al. (US 2004/0202939) teaches on page 2, [0022], that the gelled electrolyte will typically have a viscosity of at least 100 cP, more typically a viscosity of at least 1,500 cP and even more typically a viscosity of at least 10,000 cP and most typically a viscosity of at least 250,000 cP (all measured at room temperature). Fauteux et al. (5,846,267) teaches in column 4, lines 54-57, that the gel electrolyte had a viscosity of 500 cPs. Yoshida (JP 55-12672, 2 abstract) teaches a gel electrolyte having a viscosity of 10,000 cP and a gel electrolyte having a viscosity of 200-20000 cP. Therefore the rejection of claims 1-4, 6, 8 remain rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Venkatasetty (4,522,690).

The rejection of claim 1 has been withdrawn but intended use of the battery components have been given no patentable weight because as stated previously, the use of the electrolyte in a secondary battery does not further add limitation to the electrolyte. An electrolyte cannot comprise a battery.

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Election/Restrictions

2. Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 16-22 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

Claim Rejections - 35 USC § 103

3. Claims 1-4, 6, 8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Venkatasetty (4,522,690).

Venkatasetty teaches in column 1, lines 59-64, a nonaqueous, aprotic electrolyte system comprising 1.0 M LiClO4 in gamma-butyrolactone gelled with a small amount of polyethylene oxide (about 1% by weight based on the other constituents) [claimed range 0.01-10% by weight].

Since Venkatasetty teaches the same electrolyte comprising a nonaqueous solvent gamma-butyrolactone, and a macromolecular material having the claimed formula, a polyethylene oxide in amount of 1% by weight then inherently the same electrolyte having a viscosity at 20 degrees C of 60-30,000 cP or 200-10,000 cP at a shear rate of 20 S⁻¹ or is a fluid exhibiting non-Newtonian properties or the ratio of ion conductivity to viscosity is less than 0.1 must also be obtained.

In addition, the presently claimed property of an electrolyte having a viscosity at 20 degrees C of 60-30,000 cP or 200-10,000 cP at a shear rate of 20 S⁻¹ or is a fluid exhibiting non-Newtonian properties or the ratio of ion conductivity to viscosity is less than 0.1 would have obviously have been present once the Venkatasetty product is provided. *In re Best, 195 USPQ 433 (CCPA 1977)*.

Allowable Subject Matter

4. Claims 10, 12-15 are allowed.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Clarke et al. (US 2004/0202939) teaches on page 2, [0022], that the gelled electrolyte will typically have a viscosity of at least 100 cP, more typically a viscosity of at least 1,500 cP and even more typically a viscosity of at least 10,000 cP and most typically a viscosity of at least 250,000 cP (all measured at room temperature).

Fauteux et al. (5,846,267) teaches in column 4, lines 54-57, that the gel electrolyte had a viscosity of 500 cPs.

Yoshida (JP 55-12672, 2 abstract) teaches a gel electrolyte having a viscosity of 10,000 cP and a gel electrolyte having a viscosity of 200-20000 cP.

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6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura S. Weiner whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571,272-1000.

Laura S Weiner Primary Examiner

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September 18, 2006